

Work Order ID 63853

November 16, 2010 2:41:34 PM

Page 1

Item ID: D4288-1

Accept

Setup Start

Revision ID: PRELIM

Stop

Item Name: Linear Variable Displacement Transducer (LVDT)

Start Date: 11/16/10 Start Qty: 3.00

Cust Item ID:

Required Date: 12/10/10 Req'd Qty: 3.00

Customer:

Reference:

Approvals: Process Plan: CZ

Date: 10/11/16

Tooling:

Date:

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D4288

PA1

100

0.00



PURCHASING

Purchasing

Memo

0.00

Purchasing

Issue P/O: 12895
Possible Supplier: KAVLICO
Material release note required

CZ 10/11/16 3

110

0.00



Receive & Inspect for Damage & Mat'l Certs

Packaging

Memo

0.00

Packaging

Ensure material certification is attached

Comp 11/03 (1)
11/01/20 (2)

120

0.00



QC5- Inspect part completeness to step on W/O

QC

Memo

0.00

Quality Control

- inspect to PA1
Qty only

Subsides (FC)



- inspect to PA1
Qty only

8/11/126 (02)

PRELIMINARY ISSUE

Work Order ID 63853

November 16, 2010 2:41:34 PM



Page 2

Item ID:	D4288-1	Accept		Setup	Start	
Revision ID:	PRELIM				Stop	
Item Name:	Linear Variable Displacement Transducer (LVDT)					
Start Date:	11/16/10	Start Qty:	3.00		Cust Item ID:	
Required Date:	12/10/10	Req'd Qty:	3.00		Customer:	
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 	Identify as per dwg & Stock Location: _____	0.00							
Packaging	Memo	0.00							
Packaging									
140 	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

103909

11/01/26

POSITIVE RECALL
EFFECTIVE 11/16/10 AUTH W
RELEASED _____ DATE _____

Picklist Print

November 16, 2010 2:41:33 PM

Page 1

Work Order ID: 63853



Parent Item: D4288-1



Parent Item Name: Linear Variable Displacement Transducer (LVDT)



Start Date: 11/16/10

Required Date: 12/10/10

Start Qty: 3.00

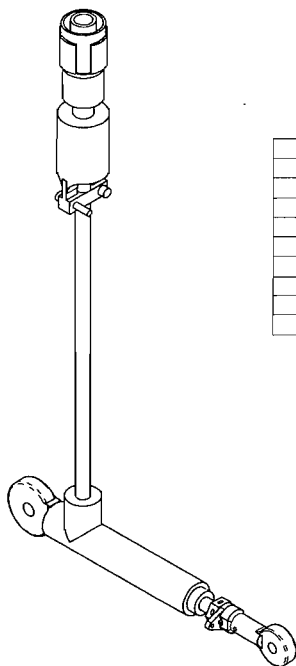
Required Qty: 3.00

Comments: IPP REV:A NEW ISSUE 10-11-16 JLM VERIOFIED BY:DD

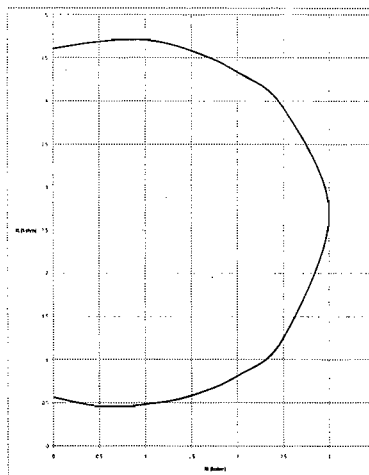
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
GM9748  Linear Variable Displacement Transducer (LVDT)		Purchased	No			100	Each	0.0000	1 	3			

PC 11/21/03 (1)
PC 11/01/20 (2)

SPECIFICATION CONTROL DRAWING



LVDT CHARACTERISTICS	
PRIMARY IMPEDANCE	SEE FIGURE BELOW
SECONDARY IMPEDANCE	460 + j2600 OHMS MAXIMUM
ELECTRICAL STROKE	+/- 0.55 INCH
EXCITATION VOLTAGE	6.0 VRMS +/- 10%
EXCITATION FREQUENCY	2.93 kHz +/- 0.1%
SENSITIVITY (E1-E2)/(E1+E2)	0.90909 V/V/INCH
LINEARITY	+/- 0.5% FULL SCALE MAXIMUM
SUM VOLTAGE (E1+E2)/VE	0.6667 V/V +/- 10%
REFERENCE	NULL OUTPUT SHALL BE READ AS 50% CLP



LVDT CONVERSION CHARACTERISTICS		
CLP (%)	TRANSFORMATION (+/- 0.0125 V/V)	LVDT DISPLACEMENT (INCHES)
0	-0.4409	-0.485
10	-0.3545	-0.390
20	-0.2673	-0.294
30	-0.1782	-0.196
40	-0.0891	-0.098
50	0.0000	0.000
60	0.0900	0.099
70	0.1800	0.198
80	0.2691	0.296
90	0.3591	0.395
100	0.4482	0.493

CL1011114
W10:63853

PRELIMINARY ISSUE

10.10.26

D4288-X LVDT

DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER
D4288-1	LINEAR VARIABLE DISPLACEMENT TRANSMITTER (LVDT)	KAVLICO	GM9748

PA1	NEW ISSUE		10.10.26
REV.		DESCRIPTION	BY DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. D4288	REV. PA1
MFG. APPR.			SHEET 1 OF 1
APPROVED		TITLE LVDT	SCALE NTS
DE APPR.			
DATE	10.10.26	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PO REPRINT

Purchase Order ID PO12895

Purchase Order Date 11/10/10

PO Print Date 11/18/10

Page Number 1 of 1

Order From :

VU-KAV001

KAVLICO AEROSPACE
14401 PRINCETON AVE
MOORPARK, CA 93021
USA

REVISED

Contact Name

Vendor Phone (805) 523-2000

Vendor Fax (805) 531-6530

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Ship To :

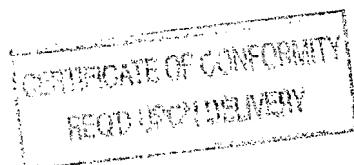
DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
3	GM9748	Linear Variable Displacement Transducer (LVDT)	12/10/10 Yes	3.00 Each	FedEx PI collect	\$2,857.0000	\$8,571.00
Special Inst:			AS PER DWG D4288 REV. PA1 B63853 KAVLICO P/N: GM9748 LVDT = LINEAR VARIABLE DIFFERENTIAL TRANSFORMER				
4	63853	D4288-1 EXPEDITE FEES	1/10/11 Yes	1.00	FedEx PI collect	\$1,500.0000	\$1,500.00

PO Total:

\$10,071.00



Change Nbr: 11

Change Date: 11/18/10

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable



14401 Princeton Avenue, Moorpark, California 93021
Phone: (805) 523-2000 Fax: (805) 531-6586

PACKING SLIP

Packing Slip #	419984
Page	1 of 1
Branch/Plant	1101
Order #	1424632 SO
Shipper Cut Date	12/28/10
Customer P.O. #	PO12895
Source Inspection	
Ship Via	Fedex Next Business Morning
Freight Terms	Collect
Shipping Acct #	FED EX P1 COLLECT
RMA #	

Bill To: 420487

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7
Canada

Inter-Consignee

Ultimate-Consignee 420487

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7
Canada

Kavlico Line #	Customer Line #	HTS ECCN / USML Kavlico Part #	HTS Description Part Description Country of Origin	Kavlico Revision	Customer Part #	W/O#	Customer Revision	Shipped Qty	Earliest Ship Date	Promised Ship Date
1.000		8543.70.4000 9A99T.C GM9748	Electric Transducer LVDT US	D	494300586-00	5705452		1	12/10/10	01/06/11
Serial Numbers										
1467										

DEC 28 2010

FOREIGN OBJECT DAMAGE & PROTECTIVE MEASURES INSPECTED

"These commodities, technology or software were exported from the United States in accordance with the Bureau of Industry, Export Administration Regulations. Diversion contrary to U.S. law is prohibited."

C OF C REQUIRED

We certify that all items furnished on this order comply with all applicable instructions and specifications. Certifications are on file for inspection.

X

Dalette Ott



SHIPPING INFORMATION

Date Shipped:	
No. Of Cartons:	
Bill Of Lading No.:	

Total Gross Weight (LB):		Partial Shipment:	
Total Net Weight (LB):		Complete Shipment:	

Shipper Prepared By: X

Q. Williams

Customer Copy

Shipper Copy

QC - Final Presentation



14401 Princeton Avenue, Moorpark, California 93021
Phone: (805) 523-2000

Certificate of Conformance

Bill To: 420487

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7
Canada

Inter-Consignee

Ultimate-Consignee 420487

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7
Canada

Packing Slip #	419984
Page	1 of 1
Branch/Plant	1101
Order #	1424632 SO
Shipper Cut Date	12/28/10
Customer P.O. #	PO12895
Source Inspection	.
Ship Via	Fedex Next Business Morning
Freight Terms	Collect
Shipping Acct #	FED EX P1 COLLECT
RMA #	

Kavlico Line #	Customer Line #	HTS ECCN / USML Kavlico Part #	HTS Description Part Description Country of Origin	Kavlico Revision	Customer Part #	W/O#	Customer Revision	Shipped Qty	Earliest Ship Date	Promised Ship Date
1.000		8543.70.4000 9A991.c GM9748	Electric Transducer LVDT US	D	494300586-00	525452		1	12/10/10	01/06/11

Serial Numbers									
1467									

FOREIGN OBJECT DAMAGE & PROTECTIVE MEASURES INSPECTED

"These commodities, technology or software were exported from the United States in accordance with the Bureau of Industry, Export Administration Regulations. Diversion contrary to U.S. law is prohibited."

☒ We certify that the above listed item(s) have been manufactured and inspected with all applicable instructions and specification requirements as called for on the purchase order physical, electrical and/or chemical test reports and certifications are on file with us, or with our suppliers for review.

☐ It is hereby certified that the parts and/or materials reflected herein were provided under federal aviation administration approved manufacturing and quality control systems/methods as set forth in FAA production specification No. 700 issued to the Boeing Company and manufacturing certificate number MMF-S48-007 issued to Kavlico Corporation, and such parts and/or materials are new and in airworthy condition.

☐ Additional applicable certifications and/or comments

By Kavlico Quality Control Representative:

Dalette Ott

Signature



Dalette Ott

Print or type name

DEC 28 2010

Date

KAVLICO CORPORATION
TRANSDUCER, LINEAR
KAVLICO P/N GM9748
TEST DATA

TD9748 REV:A
DATE: 10/14/1998
ATP9748 REV: A
REV: D

S/N 1467

DATE: 12/04/2010

EXAMINATION OF PRODUCT: K11

WEIGHT: 0.45 lbs (0.54 lbs maximum).

LOAD: 1 Megohm in parallel with 1000 pF across each secondary half and 350 pF across the entire secondary.

EXCITATION: 6.0 VRMS @ 2930 Hz.

DIELECTRIC STRENGTH: 1000 VRMS @ 60 Hz between all pins and case for 1 minute. → PASS ☒ FAIL ☐

INSULATION RESISTANCE: 40 Megohms minimum @ 500 VDC between all pins and case for 1 minute. → PASS ☒ FAIL ☐

PHASING: With PINS 1 and 5 common, PINS 3 and 4 shall be In-phase with PIN 2 over the entire electrical range, and the voltage (E1), between PINS 5 and 4 shall Increase when the armature is Extended. → PASS ☒ FAIL ☐

MECHANICAL STROKE: ± 0.600 Inches minimum. → PASS ☒ FAIL ☐

			MIN	MAX	
NULL POSITION: (@ E1=E2)		6.560 Inches	6.550	6.570	Inches
INPUT COMPLEX IMPEDANCE: (@ 3000 Hz)	X _L	708 Ohms	653	883	Ohms
	R _s	623 Ohms	513	693	Ohms
OUTPUT COMPLEX IMPEDANCE: (E1 Ext) (@ 3000 Hz)	X _L	33.6 Ohms	28.2	36.0	Ohms
	R _s	102 Ohms	90	109	Ohms
OUTPUT COMPLEX IMPEDANCE: (E2 Ins) (@ 3000 Hz)	X _L	32.5 Ohms	28.2	36.0	Ohms
	R _s	101 Ohms	90	109	Ohms
INPUT D.C. RESISTANCE:		95 Ohms	80	106	Ohms
OUTPUT D.C. RESISTANCE:		117 Ohms	105	127	Ohms
LINEARITY: (BFSL)		0.27 % F.S		± 0.50	% F.S

OUTPUT VOLTAGE RATIO (Total-Mode)

DISP (Inches)	E1/VE	E2/VE	*(E1+E2)/VE	(E1-E2)/(E1+E2)	MIN	NOM	MAX
0.550 Ins	.1672	.5023	0.6695	-.5005	-.4900	-.5000	-.5100
0.440	.1994	.4688	0.6682	-.4032	-.3900	-.4000	-.4100
0.330	.2322	.4347	0.6669	-.3036	-.2900	-.3000	-.3100
0.220	.2655	.4007	0.6662	-.2029	-.1900	-.2000	-.2100
0.110	.2992	.3667	0.6659	-.1014	-.0900	-.1000	-.1100
0.000	.3329	.3329	0.6658	.0000	-.0100	.0000	.0100
0.110	.3668	.2992	0.6660	.1015	.0900	.1000	.1100
0.220	.4007	.2657	0.6664	.2026	.1900	.2000	.2100
0.330	.4344	.2324	0.6668	.3029	.2900	.3000	.3100
0.440	.4680	.1994	0.6674	.4025	.3900	.4000	.4100
0.550Ext	.5004	.1670	0.6674	.4996	.4900	.5000	.5100

	MIN	MAX
TESTED BY: <u>T118</u>		
*(E1+E2)/VE limit =	0.6334	0.7000 V/V

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE IF EXPORTED FROM THE UNITED STATES MUST BE IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

Purchase Order ID PO12895

Purchase Order Date 11/10/10
PO Print Date 11/18/10

Page Number 1 of 1

Order From :

VU-KAV001

KAVLICO AEROSPACE
14401 PRINCETON AVE
MOORPARK, CA 93021
USA

REVISED

Contact Name

Vendor Phone

(805) 523-2000

Vendor Fax

(805) 531-6530

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Ship To :

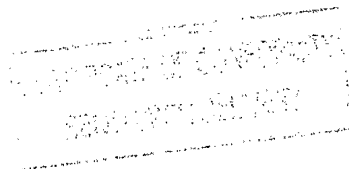
DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
3	GM9748	Linear Variable Displacement Transducer (LVDT)	12/10/10 Yes	3.00 Each	FedEx PI collect	\$2,857.0000	\$8,571.00
		Special Inst:	AS PER DWG D4288 REV. PA1 B63853 KAVLICO P/N: GM9748 LVDT = LINEAR VARIABLE DIFFERENTIAL TRANSFORMER				
4	63853	D4288-1 EXPEDITE FEES	1/10/11 Yes	1.00	FedEx PI collect	\$1,500.0000	\$1,500.00

PO Total:

\$10,071.00



Change Nbr: 11

Change Date: 11/18/10

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable



14401 Princeton Avenue, Moorpark, California 93021
Phone: (805) 523-2000

Certificate of Conformance

Bill To: 420487

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7
Canada

Inter-Consignee

Ultimate-Consignee 420487

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7
Canada

Packing Slip #	424472
Page	1 of 1
Branch/Plant	1101
Order #	1424632 SO
Shipper Cut Date	01/21/11
Customer P.O. #	PO12895
Source Inspection	.
Ship Via	Fedex Next Business Morning
Freight Terms	Collect
Shipping Acct #	FED EX P1 COLLECT
RMA #	

Kavlico Line #	Customer Line #	HTS ECCN / USML Kavlico Part #	HTS Description Part Description Country of Origin	Kavlico Revision	Customer Part #	W/O#	Customer Revision	Shipped Qty	Earliest Ship Date	Promised Ship Date
1.001		8543.70.4000 9A991.c GM9748	Electric Transducer LVDT US	D	494300586-00	527382		2	12/10/10	01/06/11

Serial Numbers									
1468	1469								

FOREIGN OBJECT DAMAGE & PROTECTIVE MEASURES INSPECTED

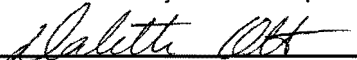
"These commodities, technology or software were exported from the United States in accordance with the Bureau of Industry, Export Administration Regulations. Diversion contrary to U.S. law is prohibited."

☒ We certify that the above listed item(s) have been manufactured and inspected with all applicable instructions and specification requirements as called for on the purchase order physical, electrical and/or chemical test reports and certifications are on file with us, or with our suppliers for review.

☐ It is hereby certified that the parts and/or materials reflected herein were provided under federal aviation administration approved manufacturing and quality control systems/methods as set forth in FAA production specification No. 700 issued to the Boeing Company and manufacturing certificate number MMF-S48-007 issued to Kavlico Corporation, and such parts and/or materials are new and in airworthy condition.

☐ Additional applicable certifications and/or comments _____

By Kavlico Quality Control Representative:


Signature

Dalette Ott
Print or type name

JAN 24 2011
Date

KAVLICO CORPORATION

TRANSDUCER, LINEAR

KAVLICO P/N **GM9748****TEST DATA**

TD9748 REV:A

DATE:10/14/1998

ATP9748 REV: A REV: D S/N 1468DATE: 01/20/2011EXAMINATION OF PRODUCT: K11WEIGHT: 0.45 lbs (0.54 lbs maximum)

LOAD: 1 Megohm in parallel with 1000 pF across each secondary half and 350 pF across the entire secondary.

EXCITATION: 6.0 VRMS @ 2930 Hz.

DIELECTRIC STRENGTH: 1000 VRMS @ 60 Hz between all pins and case for 1 minute. \longrightarrow PASS ☒ FAIL ☐INSULATION RESISTANCE: 40 Megohms minimum @ 500 VDC between all pins and case for 1 minute. \longrightarrow PASS ☒ FAIL ☐PHASING: With PINS 1 and 5 common, PINS 3 and 4 shall be In-phase with PIN 2 over the entire electrical range, and the voltage (E1), between PINS 5 and 4 shall Increase when the armature is Extended. \longrightarrow PASS ☒ FAIL ☐MECHANICAL STROKE: \pm 0.600 Inches minimum. \longrightarrow PASS ☒ FAIL ☐

			MIN	MAX	
NULL POSITION: (@ E1=E2)		6.560 Inches	6.550	6.570	Inches
INPUT COMPLEX IMPEDANCE: (@ 3000 Hz)	X_L	723 Ohms	653	883	Ohms
	R_s	631 Ohms	513	693	Ohms
OUTPUT COMPLEX IMPEDANCE: (E1 Ext) (@ 3000 Hz)	X_L	31.7 Ohms	28.2	36.0	Ohms
	R_s	101 Ohms	90	109	Ohms
OUTPUT COMPLEX IMPEDANCE: (E2 Ins) (@ 3000 Hz)	X_L	32.8 Ohms	28.2	36.0	Ohms
	R_s	104 Ohms	90	109	Ohms
INPUT D.C. RESISTANCE:		98 Ohms	80	106	Ohms
OUTPUT D.C. RESISTANCE:		118 Ohms	105	127	Ohms
LINEARITY: (BFSL)		0.22 % F.S		\pm 0.50	% F.S

OUTPUT VOLTAGE RATIO (Total-Mode)

DISP (Inches)	E1/VE	E2/VE	*(E1+E2)/VE	$\frac{(E1-E2)}{(E1+E2)}$	MIN	NOM	MAX
0.550 Ins	.1651	.4991	0.6642	-.5029	-.4900	-.5000	-.5100
0.440	.1974	.4652	0.6626	-.4042	-.3900	-.4000	-.4100
0.330	.2301	.4313	0.6614	-.3042	-.2900	-.3000	-.3100
0.220	.2634	.3975	0.6609	-.2029	-.1900	-.2000	-.2100
0.110	.2969	.3640	0.6609	-.1015	-.0900	-.1000	-.1100
0.000	.3305	.3305	0.6610	.0000	-.0100	.0000	.0100
0.110	.3642	.2970	0.6612	.1016	.0900	.1000	.1100
0.220	.3979	.2636	0.6615	.2030	.1900	.2000	.2100
0.330	.4319	.2303	0.6622	.3044	.2900	.3000	.3100
0.440	.4656	.1975	0.6631	.4043	.3900	.4000	.4100
0.550 Ext	.4980	.1650	0.6630	.5023	.4900	.5000	.5100

	MIN	MAX
TESTED BY: <u>T118</u>	$\frac{*(E1+E2)}{VE}$ limit = 0.6334	0.7000 V/V

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE IF EXPORTED FROM THE UNITED STATES MUST BE IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED.

KAVLICO CORPORATION
 TRANSDUCER, LINEAR
 KAVLICO P/N **GM9748**
TEST DATA

TD9748 REV:A
 DATE:10/14/1998
 ATP9748 REV: A
 REV: D

S/N 1469

DATE: 01/20/2011

EXAMINATION OF PRODUCT: K11

WEIGHT: 0.45 lbs (0.54 lbs maximum).

LOAD: 1 Megohm in parallel with 1000 pF across each secondary half and 350 pF across the entire secondary.

EXCITATION: 6.0 VRMS @ 2930 Hz.

DIELECTRIC STRENGTH: 1000 VRMS @ 60 Hz between all pins and case for 1 minute. → PASS ☒ FAIL ☐

INSULATION RESISTANCE: 40 Megohms minimum @ 500 VDC between all pins and case for 1 minute. → PASS ☒ FAIL ☐

PHASING: With PINS 1 and 5 common, PINS 3 and 4 shall be In-phase with PIN 2 over the entire electrical range, and the voltage (E1), between PINS 5 and 4 shall Increase when the armature is Extended. → PASS ☒ FAIL ☐

MECHANICAL STROKE: ± 0.600 Inches minimum. → PASS ☒ FAIL ☐

			MIN	MAX	
NULL POSITION: (@ E1=E2)		6.560 Inches	6.550	6.570	Inches
INPUT COMPLEX IMPEDANCE: (@ 3000 Hz)	X _L	728 Ohms	653	883	Ohms
	R _s	629 Ohms	513	693	Ohms
OUTPUT COMPLEX IMPEDANCE: (E1 Ext) (@ 3000 Hz)	X _L	31.6 Ohms	28.2	36.0	Ohms
	R _s	101 Ohms	90	109	Ohms
OUTPUT COMPLEX IMPEDANCE: (E2 Ins) (@ 3000 Hz)	X _L	33.2 Ohms	28.2	36.0	Ohms
	R _s	103 Ohms	90	109	Ohms
INPUT D.C. RESISTANCE:		97 Ohms	80	106	Ohms
OUTPUT D.C. RESISTANCE:		118 Ohms	105	127	Ohms
LINEARITY: (BFSL)		0.28 % F.S		± 0.50	% F.S

OUTPUT VOLTAGE RATIO (Total-Mode)

DISP (Inches)	E1/VE	E2/VE	*(E1+E2)/VE	(E1-E2) (E1+E2)	MIN	NOM	MAX
0.550 Ins	.1656	.5030	0.6686	-.5046	-.4900	-.5000	-.5100
0.440	.1982	.4684	0.6666	-.4053	-.3900	-.4000	-.4100
0.330	.2312	.4338	0.6650	-.3047	-.2900	-.3000	-.3100
0.220	.2645	.3995	0.6640	-.2033	-.1900	-.2000	-.2100
0.110	.2980	.3655	0.6635	-.1017	-.0900	-.1000	-.1100
0.000	.3316	.3316	0.6632	.0000	-.0100	.0000	.0100
0.110	.3652	.2978	0.6630	.1017	.0900	.1000	.1100
0.220	.3989	.2641	0.6630	.2033	.1900	.2000	.2100
0.330	.4326	.2306	0.6632	.3046	.2900	.3000	.3100
0.440	.4661	.1977	0.6638	.4043	.3900	.4000	.4100
0.550 Ext	.4985	.1656	0.6641	.5014	.4900	.5000	.5100

	MIN	MAX
TESTED BY: <u>T118</u>		
*(E1+E2)/VE limit =	0.6334	0.7000 V/V

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE IF EXPORTED FROM THE UNITED STATES MUST BE IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED.